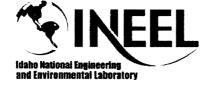
Revision ID and title erroneously list this Plan as a draft. Per completed signature page I-6 signed 3/7/02 it is actually the final Appendix I of DOE/ID-10889, Final Remedial Design/Construction Work Plan (RD/CWP) for WAG-3 Staging, Storage, Sizing, and Treatment Facility (SSSTF).

Plan

Storm Water Pollution Prevention Plan for Construction Activities – Staging, Storage, Sizing, and Treatment Facility Phase 1 (Draft)

Prepared for: U.S. Department of Energy Idaho Operations Office Idaho Falls, Idaho



Form 412.14 07/24/2001 Rev. 03 450.16 05/24/2001 Rev. 04

STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES (SWPPP-CA) LONG-FORM PROJECT

PROJECT TIT	LE:	Staging, Storage, Sizing and Treatn	nent Facility (SSSTF)		
Facility or Loca	ation: <u>l</u>	INTEC	Environmental Checklist No.: INEL-00-018-R1		
Project Descri	iption:				
The SSSTF will equipment hold	II consis ding pac	t of underground utilities, administra	ility (SSSTF) as part of the INEEL CERCLA Disposal Facility (ICDF) complex. ation building, decontamination building, access roads, parking areas, and de of the Idaho Nuclear Technology and Engineering Center (INTEC) near the SWPPP 2.		
Project Constru	ection D	eate/Duration: March 2002/12 mon	ths		
Area of Site to	be distu	urbed: 10 acres for the access roa	d and site development. 2 acres for the clearing and grubbing stockpile.		
Standard requ	iiremen	ts:			
\boxtimes	Post SWPPP-CA notice near main entrance of construction site.				
\boxtimes	Spill prevention measures and prompt cleanup of any liquid or dry material spills.				
\boxtimes	Minimize offsite tracking of sediments from vehicles.				
\boxtimes	Minimize area of disturbance and preserve vegetation.				
⊠	Good Housekeeping procedures:				
	×	Proper and orderly storage	of chemicals, pesticides, fertilizers, fuel, and other hazardous materials.		
	×	Proper and regular disposal	of sanitary, construction, and hazardous wastes.		
\boxtimes	Fugitive	e dust control measures.			
\boxtimes	Perform inspections monthly, after storms, and prior to project close-out.				
_	Attach a site map which indicates drainage patterns, discharge locations, potential pollution sources (equipment and material storage areas including soil piles), areas of soil disturbance, erosion and sediment controls, storm water control measures, and stabilization practices.				
diversion struct	ures, sil	It fences, and sediment basins. Ide	ivert storm water from exposed soil and retain sediments on site, such as ntify the entities responsible for implementation and maintenance.) elopment to filter storm water by the Subcontractor.		
Temporary spla	sh bloc	ks will be used where pipe line flust	ning may cause erosion by the Subcontractor.		
than one meter clearing and gri	and slo	opes shall be maintained at 3:1 or fl stockpile until the stockpile has bee	the north of the new access road. The stockpile will be constructed no higher atter. The Subcontractor shall install and maintain a silt fence around the nemoved. All material in the stockpile will be used during 2002 for stockpile area will be scanfied and reseeded.		

Page 1 of 3

The Contractor will monitor the Subcontractor's work.

450.16 *05/24/*2001 Rev. 04

STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES (SWPPP-CA) LONG-FORM PROJECT

Sequence: (Describe the sequence of major activities, control measure implementation, and control measure removal.)

For the utilities, the Subcontractor shall protect culverts, saw cut pavement where required, excavate trenches, place soil in piles in areas shown on drawing SWPPP 1 and install pipe and ductbank. Backfill trenches with excavated material and reshape to natural contours in unpaved areas. In paved areas, backfill trenches with excavated material, install crushed aggregate base and asphalt concrete pavement.

For site work and buildings, the Subcontractor shall prepare area for the clearing and grubbing stockpile. Clear and grub and place materials in stockpile. Install silt fence around the stockpile as shown on the drawing. Maintain the vegetative buffer zone. Excavate overburden soil and place in ICDF stockpile. Install underground pipe lines, duct banks, building foundations, and concrete pads. Install gravel and construct pavement or revegetate. See drawing SWPPP 2.

Runoff Coefficient and Storm Water Management: (Calculate runoff coefficients and explain the technical basis for permanent storm water management measures if the coefficient after construction is greater than before.)

For the utilities, the runoff coefficient will not change. Disturbed areas will be restored to the original state.

For the new access road, the runoff coefficient on improved areas will change to 90-95% for pavement. The site improvement area will be unpaved and the runoff coefficient will be 50-60%. The facility is designed to divert storm water away from the SSSTF facilities to low lying areas adjacent to the SSSTF. The main drainage pattern for this area is to the north and northeast. Two 18-inch CMP will be placed under Aspen Ave. to divert the drainage to the north toward Cleveland Ave. In addition, a portion of the drainage will be diverted to the storm water management system constructed during 2001 for the ICDF complex. The ICDF drainage system begins on the southwest comer of the SSSTF.

Storm water will flow to existing natural low areas located around the SSSTF that will function as sediment basins prior to draining out of the area. The drainage system to the north and the ICDF system to the south, will accommodate any excess runoff.

Final Stabilization: (Identify soil stabilization measures and describe scheduling. Identify the entities responsible for implementation and maintenance.)

Disturbed areas will be revegetated or paved with asphalt concrete or pit run gravel. The Subcontractor will implement stabilization measures. The Contractor will maintain the measures. It is planned to have the clearing and grubbing stockpile removed by the end of 2002.

Industrial Activities: (Identify industrial sources of pollutants such as asphalt and concrete plants and describe pollution prevention measures.)

None

Allowable Non-Storm Water Discharge: (Identify type of discharge and describe pollution prevention measures.)

During construction, the new pipe lines will be flushed and the water pumped into the drainage ditches. Splash blocks shall be used to dissipate scouring velocities.

Material Inventory: (Identify construction materials and wastes.)

Construction Materials: Soils, gravels, asphalt mix, conduit, conductors, rebar, curing compounds, paints, and sheet metal.

Construction Waste: Any wastes generated during construction will be disposed of in accordance with the SSSTF Construction Waste Management Plan.

Endangered Species: (Identify listed species or critical habitat in proximity to the construction activity. Describe any adverse impact and mitigative measures.)

S. M. Stoller Corporation has determined that the ICDF complex will not likely have a measurable impact on ecological resources. The SSSTF is part of the ICDF complex. (Ref: Stoller Corp letter dated November 24, 2000.)

Page 2 of 3

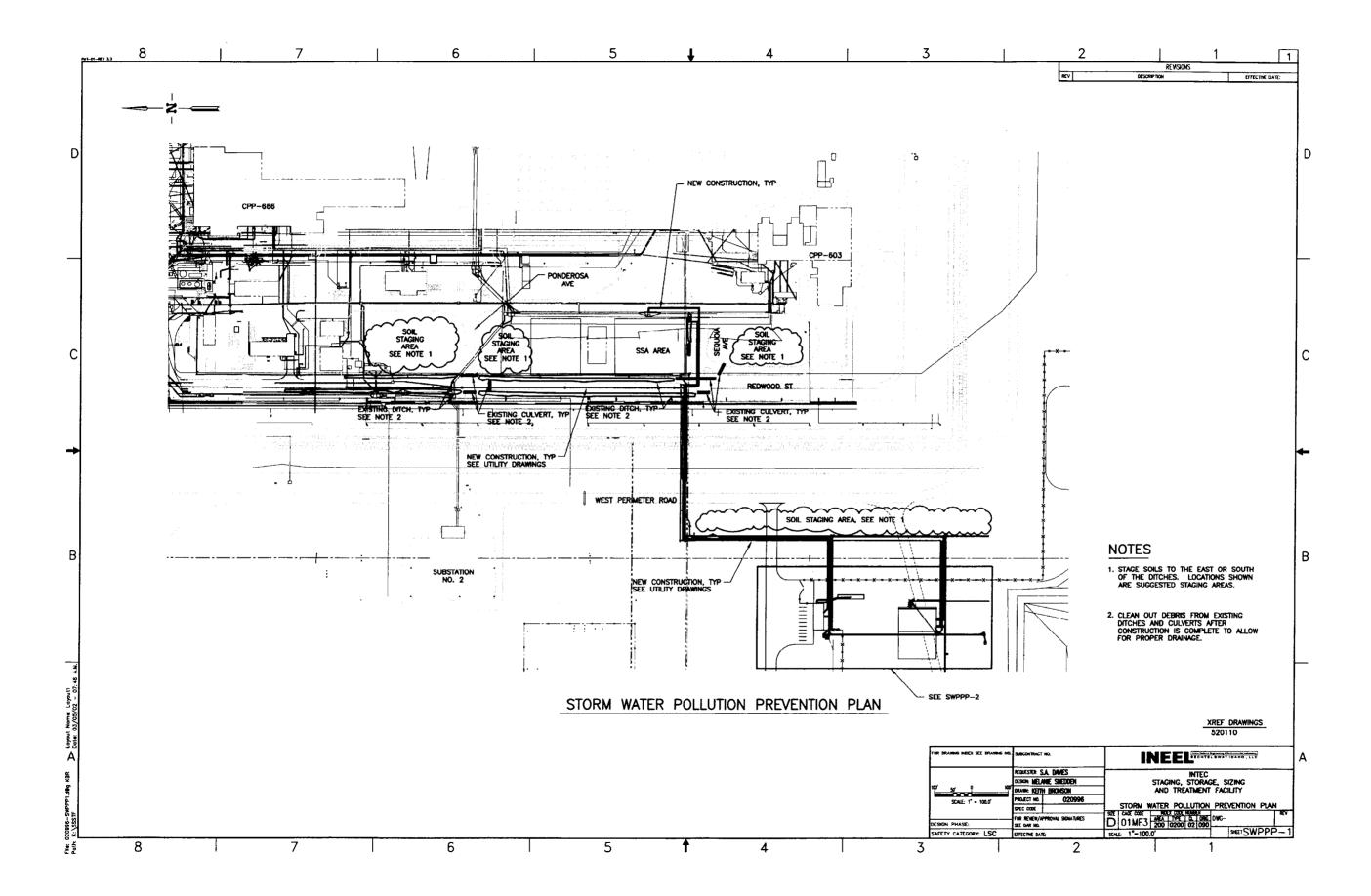
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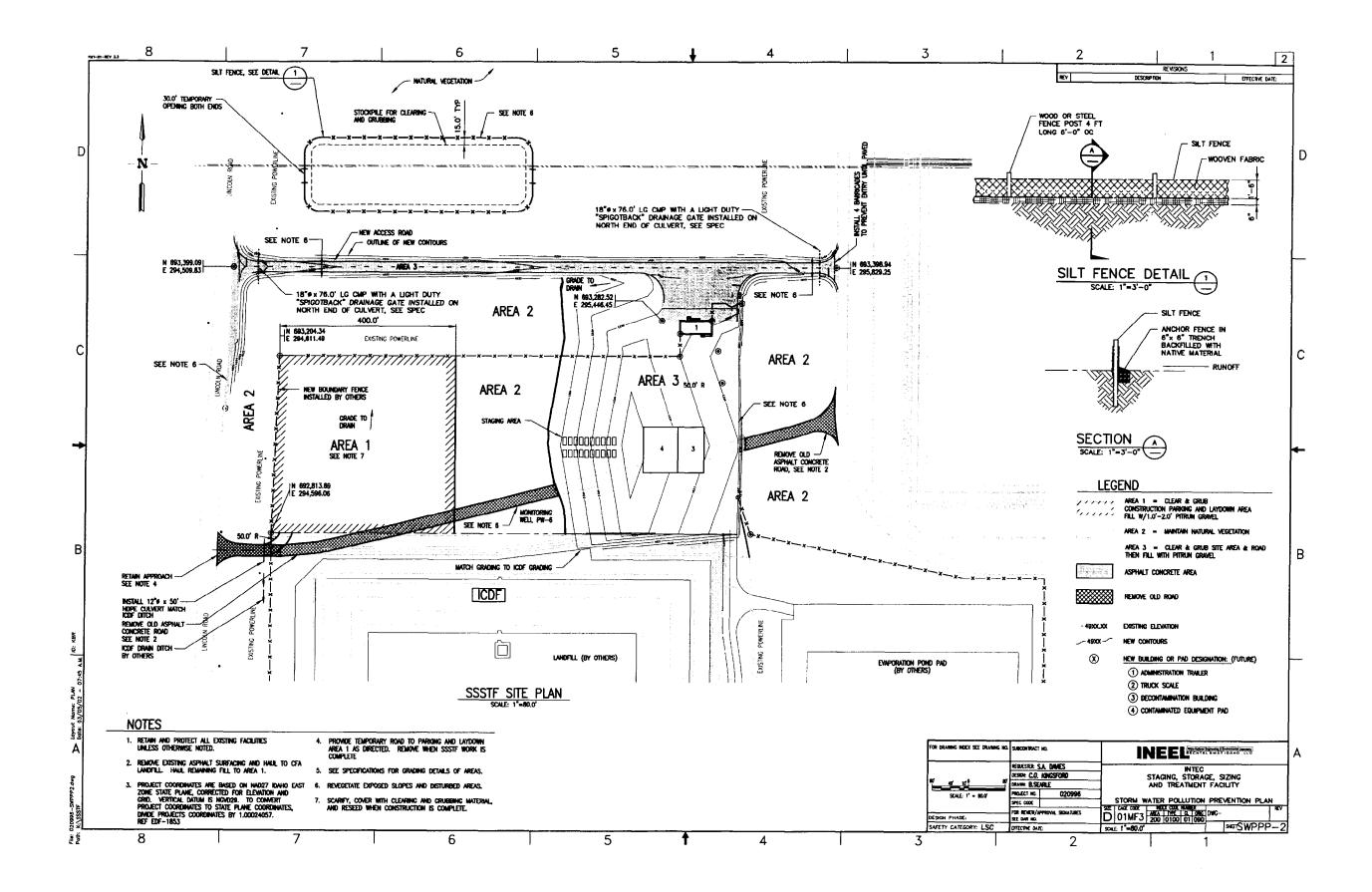
STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES (SWPPP-CA) LONG-FORM PROJECT

I have evalua Construction	ated and identified controls adequate to meet the requirements of the Activities.	INEEL Storm Water Pollution Prevention Plan for
Project Manag		n 3/1/02
	Signature	Date
	R. Lee Davison	208-526-3770
	Name (Please Print)	Phone Number
		. •
I am in agree	ment with the provisions set forth in this plan.	
INEEL SWPP	PP Coordinator: DeAnna Braun MRBraun	Date: 3.9.02
CERTIFICA	TION:	
accordance submitted. I for gathering complete. I	er penalty of law that this document and all attachments were with a system designed to assure that qualified personnel pro Based upon my inquiry of the person or persons who manage g the information, the information submitted is, to the best of m am aware that there are significant penalties for submitting falnment for knowing violations.	perly gathered and evaluated the information the system or those persons directly responsible by knowledge and belief, true, accurate, and
		Date
Signature:		Date:
	Title: ESH&QA Vice President For: Idaho National Engineering and Environmental Labor Reference: Transfer Signature Authority Letter – PHD-34-00	ratory)
Signature:		Date:
•	Title: Environmental Technical Support Division Director	·
	For: DOE-Idaho Operations Office	
	Reference: Transfer Signature Authority Letter – OPE-EP&S	SA-98-091

Worksheet must be appended to the Generic Plan or Facility SWPPP-CA.

Page 3 of 3







Memorandum

Date:

April 23, 2001

To:

Reed Moser

From:

Sue Majors

Subject:

INTEC - ICDF/SSSTF EC INEL-00-018

On November 24, 2000 we surveyed the area described in Environmental Checklist INEL-00-018. Surveys conducted by Stoller consist of the immediate impacted area described in the Environmental Checklist, as well as, any additional areas that have the potential to be impacted and buffer areas surrounding the project area. The survey for the ICDF and Evaporation Pond Environmental Checklist (INEL 00-018) covered the additional area for the proposed SSSTF location. Thus, the evaluations made for EC INEL-00-018 will also apply to the SSSTF location.

Stoller

established 1959

November 27, 2000

Mr. Roger L. Twitchell NEPA Compliance Officer U. S. Department of Energy Idaho Operations Office 850 Energy Drive, MS 1216 Idaho Falls, ID 83401-1563

Subject: Ecological Evaluation for the INEEL CERCLA Disposal Facility and Evaporation Pond (INEL-00-018)

Dear Mr. Twitchell:

This letter provides recommendations in support of NEPA for activities related to the construction, operation, and closing of an Idaho National Engineering and Environmental Laboratory (INEEL) CERCLA Disposal Facility (ICDF) near INTEC. The ICDF will consist of a landfill and an evaporation pond. It is designed to function as an INEEL-wide disposal facility to accommodate storage, treatment, and disposal of soils, debris, and liquid wastes generated from CERCLA activities.

The proposed location for the ICDF covers approximately 40 acres southwest of the INTEC facility. The vegetation community of this area was classified as sagebrush steppe and is dominated by big sagebrush, green rabbitbrush, and crested wheatgrass. The survey was done with approximately 1 inch of snow covering the ground resulting in a total number of species of plants unattainable. Total plant cover was estimated at 25-30 percent. The area is mixed with both native and non-native plants with cheatgrass, crested wheatgrass, and flax present in both disturbed and undisturbed areas.

The area proposed for these activities are likely used by a diverse complement of small mammals, reptiles, and breeding bird species common to the sagebrush steppe. Some former Candidate species for listing as Threatened or Endangered (e.g., ferruginous hawk, loggerhead shrike and sagebrush lizard) are known to use these general areas. The area is also used by pronghorn and mule deer throughout the year.

M. Stoller Corporation

1780 First Street

Idaho Falk, Idaho 23401

(208) 525-9358

T.LX. (200) 525-3364



Stoller recommends the size of the area disturbed be kept as small as possible. All sites should be reseeded to native species following the closure of the ICDF. Stoller can assist the project manager with details on reseeding.

Ponds are the only reliable water source on the INEEL and are used extensively by wildlife. The creation of an evaporation pond in this area will likely act as an additional attractant for wildlife, primarily waterfowl, pronghorn, mule deer, and potentially elk. These animals will likely increase use of this area because of are proposed water source.

The project description does not mention the construction of a fence around the evaporation pond. As long as contaminant transport is not an issue, fences should not be installed. Fences themselves can often cause negative impacts to wildlife, especially big game. If the berm slopes are not too steep and are covered with vegetation, the risk of an animal becoming trapped in or near the water, as has happened at the INTEC sewage ponds, is small. It is possible to design the proposed pond to enhance wildlife habitat on the INEEL. To facilitate use by wildlife, the slopes of the berms should be as flat as possible and covered with native vegetation

The project description does not mention returning vegetative cover to the area where the excess soil will be spread. We recommend a plan for revegetating be completed prior to any excavation. Most of the soils on the INEEL have a horizon containing high concentrations of calcium carbonate starting at about 45 cm (eighteen inches) below the soil surface. This material is generally not suitable as topsoil because its high pH and low nutrient availability make it difficult to revegetate. The top 45 cm (eighteen inches) of soil should be reserved separate from the material below it as it is excavated. This reserved topsoil should be reserved as surface horizon where the excess soil will be spread, and spread over the surface of the berm and around the pond. We recommend these areas be planted with native species. Stoller can provide assistance to the project manager in selecting appropriate species and seeding rates. To further reduce the costs and regulatory liabilities associated with revegetation, the area of soil disturbance should be kept as small as possible.

Information concerning capping the area is also not addressed in the project description. We recommend that a plan for capping the buried waste area be in place before construction begins. We suggest using a protective cap containing native vegetation over a biobarrier that will prevent burrowing animals from reaching the contaminants. Using capping materials like large rocks provides a safe haven for unwanted wildlife such as snakes, skunks, and yellow-bellied marmots. Stoller can provide assistance to the project manager by providing information on biobarriers and native vegetation.

Less than 30 percent of the area, likely to be affected by these activities, has been previously disturbed. It is unlikely the proposed activities will have any measurable impact on species of federal or state concern. There are no federally listed or proposed threatened or endangered species, species of special concern, or records thereof, or designated critical habitat in proximity to the project area, the area of construction of storm water pollution prevention measures, the areas where storm water flows from the

project area to the point of discharge, or in proximity to the area where storm water discharges into receiving waters. It is our opinion a biological consultation with the U.S. Fish and Wildlife Service is not necessary for these activities.

If you have any questions regarding this evaluation, please contact me at phone number below or at smajors@stoller.com.

Sincerely,

Sue J. Majord
Wildlife Biologist

Stoller Corp.
1780 First Street,

Idaho Falls, ID 83401

(208) 525-9358

FAX: (208) 525-3364

cc: J.S. Irving, BBWI, MS 3428
R. S. Moser, BBWI, MS 3427
E.C. Miller, BBWI, MS 3953
Stoller Files